

R Communications Radio and Television
1201 North Jackson Road
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McAllen, TX 78501

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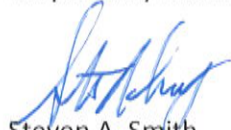
TRANSMITTER POWER OUT CALCULATION FOR KESO-FM, ID 36650
MBM TEXAS VALLEY LLC

Licensed Effective Radiated Power	38kW	15.798 dBk
Shively 6813-6 full wave 6 section Antenna power gain	3.3	
Antenna Power Input	11.515 kW	10.613 dBk
478 feet/ HJB-50B 3 1/8" Air Helix loss Eff. = 86.06%	-.136 db/100' -1.865 kW	-.652 dB
Nautel NV-15 Transmitter Output Power To achieve 38kW ERP	13.4 kW	11.271 dBk

Date acquired from manufacturers' data tables

Transmission line replacement with line of higher efficiency.

Respectfully submitted,



Steven A. Smith
Chief Engineer
KESO-FM